



PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/529,530
	Filing Date	March 29, 2005
	First Named Inventor	Teresa P. Karjala
	Art Unit	<del>11A</del> 1797
	Examiner Name	<del>Not Yet Assigned</del> Brian McCaig
	Attorney Docket Number	62144B US
Total Number of Pages in This Submission		

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Receipt Postcard PTO/SB/08 (7 pages) 29 References
Remarks		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	THE DOW CHEMICAL CO.		
Signature	<i>James M. Terry</i>		
Printed name	James M. Terry		
Date	June 29, 2005	Reg. No.	53,682

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: June 29, 2005

Signature: *Deena D. Farns* (Deena D. Farns)



I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: June 29, 2005

Signature: *Deena D. Faints*  
(Deena D. Faints)

Docket No.: 62144B US  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Teresa P. Karjala et al.

Application No.: 10/529,530

Confirmation No.:

Filed: March 29, 2005

Art Unit: N/A

For: LIQUID AND GEL-LIKE LOW  
MOLECULAR WEIGHT ETHYLENE  
POLYMERS

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

A copy of each foreign patent and non-patent literature reference on the PTO/SB/08 is attached.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any

Application No.: 10/529,530

2

Docket No.: 62144B US

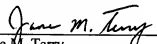
patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.


It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1512, under Order No. 62144B US. A duplicate copy of this paper is enclosed.

Dated: June 29, 2005

Respectfully submitted,

By   
Jane M. Terry  
Registration No.: 53,682  
THE DOW CHEMICAL CO.  
2030 Dow Center  
Midland, Michigan 48674

Substitute for form 1449A/PTO		<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/529,530
		Filing Date	March 29, 2005
		First Named Inventor	Teresa P. Karjala
		Art Unit	1797
		Examiner Name	<del>Not Yet Assigned</del> Brian McCaig
		Attorney Docket Number	62144B

## U.S. PATENT DOCUMENTS


Examiner Initials	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/B.M./		US-3,645,992	02-29-1972	Clayton Trevor	
		US-4,326,972	04-27-1982	William B. Chamberlin III	
		US-4,388,202	06-14-1983	Rüchiro Nagano, et al.	
		US-4,704,491	11-03-1987	Toshiyuki Tsutsui, et al.	
		US-4,874,880	10-17-1989	Shinya Miya, et al.	
		US-5,017,299	05-21-1991	Antonio Gutierrez, et al.	
		US-5,044,438	09-03-1991	Joe A. Young	
		US-5,057,475	10-15-1991	Jo Ann M. Canich, et al.	
		US-5,084,802	11-12-1991	James C. Stevens, et al.	
		US-5,096,867	03-17-1992	Jo Ann M. Canich	
		US-5,132,380	07-21-1992	James C. Stevens, et al.	


## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/B.M./		WO-0118109 A1	03-15-2001	Patrick Brant		
		WO-8805792	08-11-1988	Howard W. Turner, et al.		
		WO-8805793	08-11-1988	Howard W. Turner, et al.		
		WO-9007526	12-07-1990			
Examiner Signature	/Brian McCaig/			Date Considered	09/17/2008	

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY          APPLICANT</b>  (Use as many sheets as necessary)	<b>Complete if Known</b>	
	Application Number	10/529,530
	Filing Date	March 29, 2005
	First Named Inventor	Teresa P. Karjala
	Art Unit	1797
	Examiner Name	<del>Not Yet Assigned</del> Brian McCaig
Attorney Docket Number		621448

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
/B.M./		US-5,153,157	10-08-1992	Gregory G. Hlatky, et al.		
		US-5,198,401	03-30-1993	Howard W. Turner, et al.		
		US-5,218,071	06-08-1993	Toshiyuki Tsutsui, et al.		
		US-5,229,022	07-20-1993	Won R. Song, et al.		
		US-5,272,236	12-21-1993	Shih-Yaw Lai, et al.		
		US-5,275,747	01-04-1994	Antonio Gutierrez, et al.		
		US-5,277,833	01-11-1994	Won R. Song, et al.		
		US-5,278,272	01-11-1994	Shih-Yaw Lai, et al.		
		US-5,294,234	03-15-1994	Jacob Emert, et al.		
		US-5,296,433	03-22-1994	Allen R. Siedle, et al.		
		US-5,324,800	06-28-1994	Howard C. Welborn, et al.		

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/B.M./		WO-9319104	09-30-1993	Robert K. Rosen, et al.		
		WO-9321238	10-28-1993	Allen R. Siedle, et al.		
		WO-9321242	10-28-1993	Patrick Brant, et al.		
		WO-9325590	12-23-1993	Howard W. Turner, et al.		
		WO-9400500	01-06-1994	Richard B. Pannell, et al.		
Examiner Signature	/Brian Mccaig/			Date Considered	09/17/2008	

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY          APPLICANT</b>  (Use as many sheets as necessary)	<b>Complete If Known</b>	
	Application Number	10/529,530
	Filing Date	March 29, 2005
	First Named Inventor	Teresa P. Karjala
	Art Unit	1797
	Examiner Name	Brian McCaig
	Attorney Docket Number	62144B

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/B.M./		US-5,366,647	11-22-1994	Antonio Gutierrez, et al.	
↓		US-5,408,017	04-18-1995	Howard W. Turner, et al.	
		US-5,427,991	06-27-1995	Howard W. Turner	
		US-5,504,049	04-02-1996	Donna J. Crowther, et al.	
		US-5,599,761	02-04-1997	Howard W. Turner, et al.	
		US-5,616,664	04-01-1997	Francis J. Timmers, et al.	
		US-5,621,127	08-19-1997	Franz Langhauser, et al.	
		US-5,625,087	04-29-1997	David D. Devore, et al.	
		US-5,658,865	08-19-1997	Toshio Yoshida, et al.	
		US-5,663,129	09-02-1997	Jacob Emert, et al.	
↓		US-5,703,187	12-30-1997	Francis J. Timmers	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/B.M./		WO-9403506	02-17-1994	David J. Upton, et al.		
↓		WO-9419436	09-01-1994	Jacob Emert, et al.		
		WO-9500526	01-05-1995	David D. Devore, et al.		
		WO-9600244	01-04-1996	Jo Ann M. Canich, et al.		
↓		WO-9613530	05-09-1996	Main Chang		
Examiner Signature	/Brian McCaig/			Date Considered	09/17/2008	

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	<b>Complete If Known</b>	
	Application Number	10/529,530
	Filing Date	March 29, 2005
	First Named Inventor	Teresa P. Karjala
	Art Unit	<del>4000</del> 1797
	Examiner Name	Not Yet Assigned Brian McCaig
	Attorney Docket Number	62144B

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/B.M./		US-5,703,257	12-30-1997	Robert K. Rosen, et al.	
↓		US-5,710,224	01-20-1998	Helmut G. Alt, et al.	
		US-5,717,039	02-10-1998	Joseph Victor Cusumano, et al.	
		US-5,728,855	03-17-1998	Gregory M. Smith, et al.	
		US-5,731,253	03-24-1998	Samuel A. Sangokoya	
		US-5,747,596	05-05-1998	Jacob Emert, et al.	
		US-5,759,967	09-22-1998	Won R. Song, et al.	
		US-5,767,208	06-16-1998	Howard William Turner, et al.	
		US-5,811,379	09-22-1998	Albert Rossi, et al.	
		US-5,883,204	03-16-1999	Lee Spencer, et al.	
↓		US-5,907,021	05-25-1999	Howard William Turner, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number-Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/B.M./		WO-9623010	08-01-1996	Lynda K. Johnson, et al.		
↓		WO-9722635	06-26-1997	Howard W. Turner, et al.		
		WO-9742241	11-13-1997	Jacob Renkema, et al.		
		WO-9841529	09-24-1998	Rupert E. Spence, et al.		
↓		WO-9850392	11-12-1998	Rupert E. Spence, et al.		
Examiner Signature	/Brian McCaig/			Date Considered	09/17/2008	

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	<b>Complete if Known</b>	
	Application Number	10/529,530
	Filing Date	March 29, 2005
	First Named Inventor	Teresa P. Karjala
	Art Unit	<del>604</del> 1797
	Examiner Name	<del>Not Yet Assigned</del> Brian McCaig
	Attorney Docket Number	621448

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/B.M./		US-5,912,212	06-15-1999	Jinichi Igarashi, et al.	
		US-5,962,714	10-05-1999	Laughlin Gerard McCullough, et al.	
		US-5,965,677	10-12-1999	Douglas W. Stephan, et al.	
		US-5,965,756	10-12-1999	Mark H. McAdon, et al.	
		US-5,972,822	10-26-1999	Francis J. Timmers, et al.	
		US-6,013,819	01-18-2000	James C. Stevens, et al.	
		US-6,015,868	01-18-2000	Peter N. Nickias, et al.	
		US-6,017,859	01-25-2000	Albert Rossi, et al.	
		US-6,030,530	02-29-2000	Jacob Emert, et al.	
		US-6,054,544	04-25-2000	Malcolm F. Finlayson, et al.	
		US-6,063,973	05-16-2000	Ayusman Sen, et al.	


FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number-Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/B.M./		WO-9914250	03-25-1999	John McMeeking, et al.		
		EP-0107282 B1	10-08-1983	James N. Vinci		
		EP-0277003 A1	01-27-1988	Howard W. Turner, et al.		
		EP-0468537 B1	01-27-1988	Howard W. Turner, et al.		
		EP-0468651 B1	07-01-1991	Robert E. LaPointe		
Examiner Signature	/Brian McCaig/			Date Considered	09/17/2008	


<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)	<b>Complete If Known</b>	
	Application Number	10/529,530
	Filing Date	March 29, 2005
	First Named Inventor	Teresa P. Karjala 1797
	Art Unit	MPA
	Examiner Name	<del>Not Yet Assigned</del> Brian McCaig
Attorney Docket Number		62144B

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/B.M./		US-6,074,977	06-13-2000	Robert K. Rosen, et al.	
		US-6,084,046	07-04-2000	Hirofumi Johoji, et al.	
		US-6,100,224	08-08-2000	Dennis G. Peiffer, et al.	
		US-6,110,880	08-29-2000	Gary William Verstrate, et al.	
		US-6,150,297	11-21-2000	Richard E. Campbell Jr, et al.	
		US-6,262,324 B1	07-17-2001	William Heimann, et al.	
		US-6,310,164 B1	10-30-2001	Kenichi Morizono, et al.	
		US-6,335,410 B1	11-21-2000	Malcolm F. Finlayson, et al.	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
/B.M./		EP-0514828 B1	05-19-1992	David D. Devore		
		EP-0520732 A1	06-22-1992	Robert E. LaPointe, et al.		
		EP-0949278 A2	01-27-1988	Howard W. Turner, et al.		
		EP-0949279 A2	01-27-1988	Howard W. Turner, et al.		
		EP-1063244 A2	12-18-1996	Howard W. Turner, et al.		
Examiner Signature	/Brian McCaig/			Date Considered	09/17/2008	

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY          APPLICANT</b>  (Use as many sheets as necessary)	<b>Complete If Known</b>	
	Application Number	10/529,530
	Filing Date	March 29, 2005
	First Named Inventor	Teresa P. Karjala
	Art Unit	<del>1000</del> 1797
	Examiner Name	<del>Not Yet Assigned</del> Brian McCaig
	Attorney Docket Number	62144B

NON PATENT LITERATURE DOCUMENTS			7 <sup>2</sup>
Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
Initials	No. <sup>1</sup>		
EXAMINER		DATE	
SIGNATURE /Brian McCaig/		CONSIDERED 09/17/2008	

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.